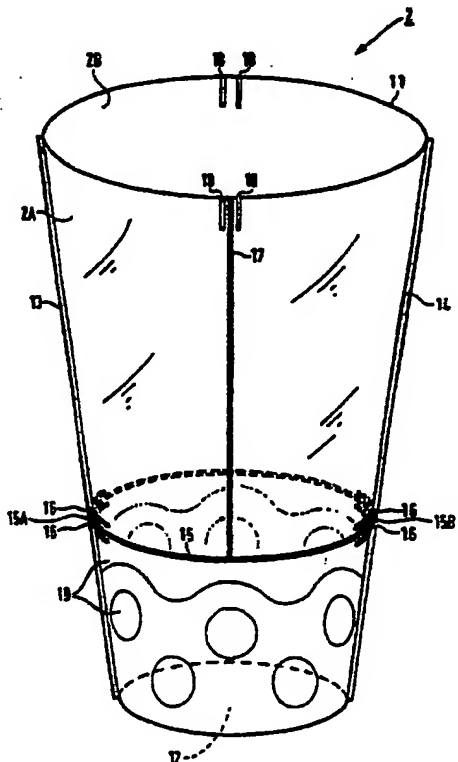


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<p>(21) International Application Number: PCT/NL96/00380 (22) International Filing Date: 2 October 1996 (02.10.96) (30) Priority Data: 1001326 2 October 1995 (02.10.95) NL (71) Applicant (for all designated States except US): KLERK'S PLASTIC INDUSTRIE B.V. [NL/NL]; Delfweg 52, NL-2211 VN Noordwijkerhout (NL). (72) Inventor; and (75) Inventor/Applicant (for US only): SCHALKE, Wilhelmus, Bernardus, Gerardus [NL/NL]; Anne Frankstraat 26, NL-2162 JP Lisse (NL). (74) Agent: VAN WEELE, Paul, Johannes, Frits; Octrooibureau Los en Stijger B.V., Weteringschans 96, NL-1017 XS Amsterdam (NL).</p>		<p>(81) Designated States: AU, CA, MX, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).</p> <p>Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p>
<p>(54) Title: PACKAGING FOR HORTICULTURAL PRODUCTS</p> <p>(57) Abstract</p> <p>A packaging (1, 2) comprises a sleeve (1, 2) made from packaging film, which sleeve (1, 2) is in any case open at the top, into which sleeve (1, 2) a horticultural product such as flowers, plants and the like, may be put from the top side, for the protection of the flowers and/or leaves. In order to further avoid damage of the flowers and/or leaves of the horticultural product, the sleeve (1, 2) is provided with a tear strip (8, 9, 15) attached to the packaging film, allowing the packaging (1, 2) to be removed entirely or, if desired, partially, substantially without any damage to the packaged horticultural product.</p> 		

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Packaging for horticultural products

The present invention relates to packaging for a horticultural product such as flowers, plants and the like, comprising a sleeve which is made from packaging film and is in any case open at the top side, into which
5 sleeve the plant is placed from the top side.

Packaging of the above-mentioned type is used daily on a large scale in shops selling flowers and plants directly to the consumer as well as by growers and wholesalers and auctioneers. It is of the utmost
10 importance for growers and for wholesalers and auctioneers that flowers and plants are protected against damage such as damage incurred during transport. Often sleeves made from plastic foil, usually polypropylene, are used for this purpose.

A suitable sleeve, as well as a suitable method for the manufacture of such a sleeve is described in the European patent specification 0 369 549 B1, also by applicants. The sleeves described in this patent specification are intended for flowers and are shaped more
20 or less conically, having a wide top side and a narrower bottom side, in order to more or less have the sleeve follow the shape of a bunch of flowers or a plant. When making the sleeves one starts from two layers of plastic material which are placed on top of each other as flat
25 strips. The strips of plastic material thus placed on top of each other are cut cross-ways into separate sleeves, the two separate parts being joined along the edges by means of heat treatment forming a weld. The weld may be formed by, for instance, using a lancing tool.

Although the sleeves used have indeed proven to offer good protection against transport damage, it has on the other hand been shown, that the packaged plants and flowers may easily be damaged during removal from the packaging. Moreover, plants such as bromelia, kalanchoe
35 and St. Paulia may incur leaf damage, or the removal of leaves may result in the plant dying. Other plants and cut flowers depreciate in commercial value if damaged. All

this results in losses due to the fact that damaged plants and flowers are no longer suitable for sale. It is even so that markets located at a considerable distance from the grower cannot be adequately worked due to the fact that
5 the supply of undamaged plants or flowers to the sales outlet cannot be guaranteed.

The invention intends to provide a sleeve of the above type which is better suited to prevent damage to cut flowers and/or plants while in addition offering other
10 advantages and is characterized in that the sleeve is provided with a tear strip to allow at least partial removal of the sleeve, substantially without damage to the plant wrapped in the sleeve.

The tear strip is provided during production of the
15 sleeves in accordance with a procedure which is known per se. Through the provision of the tear strip damage during unwrapping, even fast unwrapping of large lots of cut flowers and/or plants, can be limited significantly, while moreover, the unwrapping operation can proceed more
20 quickly. Tearing open the sleeve with the aid of the tear strip facilitates fast and easy unwrapping by a very simple operation without requiring awkward manipulation of the packaged goods.

With packaging where the sleeve is also open at the
25 bottom, as is in particular the case with sleeves intended for cut flowers, the sleeve comprises, in addition to the top edge, also a bottom edge and it is of interest to use an embodiment of the invention, which is characterized in that the tear strip extends from the top edge of the
30 sleeve to the bottom edge. When using a sleeve according to this embodiment and after completely pulling loose the tear strip, only a sheet of packaging film remains, leaving the horticultural product completely free.

With another packaging wherein the bottom of the
35 sleeve opposite the top side is substantially closed, for instance for packaging pot plants, an embodiment of the invention is of interest which is characterized in that at some distance from the bottom a circumferential tear strip is provided. With this embodiment part of the packaging

remains in place after tearing loose the tear strip around the pot. This is of advantage, particularly in the case of pot plants which are placed on a shop shelf by the retail trade, for instance the supermarket. The base of the pot stays covered by a remaining part of the packaging film. The plant itself is stripped of the sleeve, allowing a better presentation of the plant. The pot itself which is often dirtied with soil, stands on the bottom of the packaging. Any water present in the pot will stay in the remaining part of the packaging so that there is less soiling of the shop or supermarket.

Especially with larger packagings of cut flowers and/or plants an embodiment of the invention may be of interest which is characterized in that the sleeve is provided with several tear strips distributed over the sleeve. This allows faster removal of the packaging, if so desired, in separate parts, with the additional advantage that the packaging containing the horticultural product is subjected to less manipulation when finding a tear strip, even if it is not necessary to remove the packaging in separate parts.

For easy and fast pulling loose of the tear strip an embodiment of the invention is of interest which is characterized in that the packaging film of the sleeve is provided with slits at either side of an extremity of the tear strip. The presence of the slits at either side of the tear strip facilitates the extremity of the tear strip to be taken hold of so that this measure also contributes to the fast and easy removal of the packaging while the horticultural product is to a large extent spared. The slits at either side of the tear strip are without problems easily and quickly provided during production without detrimental effects on the productivity of the production installation.

A sleeve having both an open top and an open bottom may, according to a further embodiment of the invention, be provided with said slits in the sleeve both at the top edge and at the bottom edge, so that when unwrapping, the

packaging may be pulled loose from the bottom to the top or from the top to the bottom as desired.

In packagings of the type mentioned previously, wherein the sleeve has opposite its top a substantially closed bottom and wherein a circumferential tear strip is provided at a distance from the bottom, it is of advantage to apply an embodiment of the invention which is characterized in that there are sealing welds at either side of the sleeve, that the extremity of the circumferential tear strip is located at a sealing weld and that the slits pass through the sealing weld. In this way taking hold of a tear strip for the removal of a packaging having a circumferential tear strip is also facilitated by the provision of slits.

This embodiment may advantageously have the further characteristic that passing through the other sealing weld the tear strip is also provided with slits on both sides. In this way the presence of sealing welds will form no hindrance to the quick and easy removal of the packaging.

With sleeves according to the last mentioned embodiment the upper part of the sleeve may, for instance, be pulled downward, that is to say downward along the pot.

The removal of the upper part of the sleeve may, however, be effectuated even more easily by applying a following embodiment which is characterized in that there is also a tear strip provided extending from the top edge of the sleeve to said circumferential tear strip. With this last embodiment it is also possible, if desired, to apply several tear strips extending from the top edge of the sleeve to the circumferential tear strip. This embodiment could be of interest when packaging large pot plants that have fragile flowers and/or leaves.

Preferably another embodiment may be applied which is characterized in that the part of the sleeve between the bottom and the circumferential tear strip has about the height of a plant pot. In this way optimal shop presentation of the plant is achieved, especially if the sleeve - which entirely covers the plant - is provided with suitable print.

It has been shown that the various embodiments of the invention may advantageously make use of the characteristic that the tear strip is 0.5 to 5 mm wide.

The invention will now be elucidated by referring
5 to the drawing showing a few non-limitative embodiments of the invention, wherein:

Fig. 1 is a view of the sleeve according to the invention for the use of cut flowers, which is open at the top and open at the bottom and

10 Fig. 2 is a sleeve according to the invention for the use of pot plants, which is open at the top and closed at the bottom. ✓

The packagings according to the drawing are intended for packaging horticultural products such as
15 flowers, plants and the like and all comprise a sleeve which is at least open at the top, for the insertion at the top of the horticultural product, which sleeve is made from packaging foil, for instance plastic foil such as polypropylene.

20 The sleeve 1 according to Fig. 1 has an open top and an open bottom and thus a top edge 2 and a bottom edge 3. The top edge 2 is scalloped for a more decorative presentation. The outer surface 4 of the sleeve is provided with decorative print 5. The sleeve consists of
25 originally flat pieces of packaging film 1A and 1B of which the edges are joined together locally by sealing welds 6 and 7. The sleeve may, for instance be used for packaging cut flowers which are inserted into the envelop through the open top, while the stems of the cut flowers
30 will normally protrude through the sleeve's open bottom.

The sleeve is provided with two tear strips 8 and 9. Each of these extends from the sleeve's top edge 2 to the bottom edge 3. The tear strips consist of a strip of suitable plastic being between 0.5 and 5 mm wide, which
35 are suitably attached, for instance by firm adhesion over the entire length of the sleeve. As the sleeve is made from flat plastic foil parts 1A and 1B, the strips can easily be attached to the originally flat sleeve during its manufacture. Due to the fact that the plastic foil of

the sleeve is provided with slits at either side of the top extremity 8A of the tear strip 8 the strip can be taken hold of at the edge in order to facilitate the removal of the packaging. Similarly, slits are also

5 provided at the extremity 8B of the strip 8 at the bottom edge. The same goes for the tear strip 9. The embodiment in Fig. 1 shows the strips 8 and 9 above each other when the sleeve lies flat, so that the slits 10 at the top edge and the slits 10 at the bottom edge in the two parts 1A

10 and 1B of the sleeve can be provided in one operation. This manner of providing slits in both parts 1A and 1B of the sleeve may also be applied when only one single tear strip 8 or 9 is present, as this facilitates making the slits. Apart from two tear strips 8 and 9 there could also

15 be more tear strips distributed over the sleeve in a different way. Also, the tear strips need not extend straight from top to bottom from the top edge 2 to the bottom edge 3, but could, in principle, also run obliquely.

20 Fig. 2 shows a packaging 2 for pot plants. Again the top is open, exhibiting a top edge 11. Opposite to the open top we find at the bottom of the sleeve a bottom 12. This sleeve, too, comprises two flat pieces of packaging film 2A and 2B respectively which are joined together at

25 either side by sealing welds 13 and 14. The bottom part of the sleeve has roughly the dimensions of a pot of a pot plant to be packaged and is provided with appropriate print 15 for the purpose of somewhat hiding the plastic pot used for transport. In the embodiment shown the top

30 part of the packaging is transparent in order to optimally exhibit the contents. The tear strip 15 is positioned at some distance from the bottom 12. With the aid of the tear strip the pot-shaped bottom part of the packaging can be separated from the top part of the packaging. This top

35 part may, for instance, be removed downward, leaving the plant entirely free while the pot in the bottom part remains in the packaging. The sealing welds 13 and 14 could impede the pulling loose of the tear strip. To avoid this, slits 16 are provided on both sides of the tear

strip's extremity 15A, which slits pass through the
sealing weld 13. As the other sealing weld 14 could also
impede the complete pulling loose of the tear strip, slits
16 are also provided at this sealing weld on both sides of
5 the tear strip 15. These slits may also easily be provided
while the sleeve is still flat. The circumferential tear
strip 15 could, in principle, also consist of two separate
tear strips. When manufacturing the sleeve, which is still
flat, it is easier to provide the two separate tear strips
10 than to provide the continuous circumferential strip.

For the easy removal of the top part of the
packaging as shown in Fig. 2, a further tear strip 17 is
provided, extending from the sleeve's top edge 11 to the
circumferential tear strip 15. The tear strip 17 provided
15 over the outside of the sleeve may, for instance, run
close to the tear strip 15, so that when removing the top
part of the sleeve, only a small piece of packaging film
remains to be torn by hand. This need not be a problem in
practice. Similarly, as with the tear strips 8 and 9, the
20 top extremity of the tear strip 17 is at either side in
the top edge 11 provided with slits 18. There are also
slits 18 at the opposite side of the top edge 11, although
at this side no tear strip is provided. The slits 18 at
the top edge 11 opposite to the tear strip 17 are, how-
25 ever, no problem, they occur automatically when the slits
are made near the tear strip 17, as for simplicity's sake
both plastics films 2A and 2B are cut simultaneously
during manufacture.

Application of both a circumferential tear strip 15
30 and a vertical tear strip 17 allows, with pot plants, the
quick and easy removal of the upper part of the packaging
2, and the bottom part, having roughly the height of the
pot, remains around the pot while in the shop or
supermarket. Of course, with this embodiment of the
35 invention it is also possible, if desired, to provide even
more tear strips, which could be advantageous, especially
with larger packagings.

Although the invention is demonstrated by only two
embodiments, the invention is by no means limited to

these. On the contrary, the invention encompasses all
embodiments within the scope of the accompanying claims.
The sleeves may be made from any suitable packaging film,
such as for instance cellophane or any other suitable
5 material such as plastic material, for instance
polypropylene. The sleeves may or may not be transparent
and may or may not be provided with print and, if desired,
may have a different shape than the essentially conical
shape shown. The tear strips may run in different
10 directions and may be used in a variety of combinations.
The principal idea of the invention is the provision of a
sleeve made from packaging film for packaging cut flowers,
pot plants or other horticultural products such as shrubs,
while the packaging can be removed quickly and efficiently
15 with the aid of tear strips without damaging the leaves or
flowers of the packaged horticultural product. Embodiments
wherein only part of the packaging consists of a sleeve
made from packaging film, are also conceivable.

CLAIMS

1. Packaging (1; 2) for a horticultural product such as flowers, plants and the like, comprising a sleeve which is made from packaging film and is in any case open at the top side, into which sleeve the plant is put from
5 the top side, characterized in that the sleeve (1; 2) is provided with a tear strip (8; 9; 15) to allow at least partial removal of the sleeve, substantially without damage to the plant wrapped in the sleeve.

2. Packaging (1) in accordance with claim 1,
10 wherein the sleeve (1) is also open at the bottom having a bottom edge (3), characterized in that the tear strip (8, 9) extends from the top edge (2) of the sleeve to the bottom edge (3).

3. Packaging (2) in accordance with claim 1,
15 wherein opposite to the top edge the sleeve (2) has a substantially closed bottom (12), characterized in that at some distance from the bottom (12) a circumferential tear strip (15) is provided.

4. Packaging (1; 2) in accordance with any of the
20 preceding claims, characterized in that the sleeve is provided with several tear strips (8; 9; 15) distributed over the sleeve.

5. Packaging (1; 2) in accordance with any of the preceding claims, characterized in that the packaging film
25 of the sleeve is provided with slits (10) at either side of an extremity of the tear strip (8; 9; 15).

6. Packaging (1) in accordance with claims 2 and 5, characterized in that said slits (10) are provided both at the top edge (2) and at the bottom edge (3) of the sleeve.

30 7. Packaging (2) in accordance with claims 3 and 5, characterized in that there are sealing welds (13, 14) at either side of the sleeve, that the extremity of the circumferential tear strip (15) is located at a sealing weld (B) and that the slits (16) pass through the sealing
35 weld (13).

8. Packaging in accordance with claim 7, characterized in that passing through the other sealing weld (14) there are also slits (16) provided on both sides of the tear strip (15).

5 9. Packaging in accordance with claim 3, characterized in that there is also a tear strip provided extending from the top edge of the sleeve to said circumferential tear strip.

10 10. Packaging in accordance with claim 3, characterized in that the part of the sleeve between the bottom and the circumferential tear strip has about the height of a plant pot.

15 11. Packaging in accordance with any of the preceding claims, characterized in that the tear strip is about 0.5 to 5 mm wide.

1/2

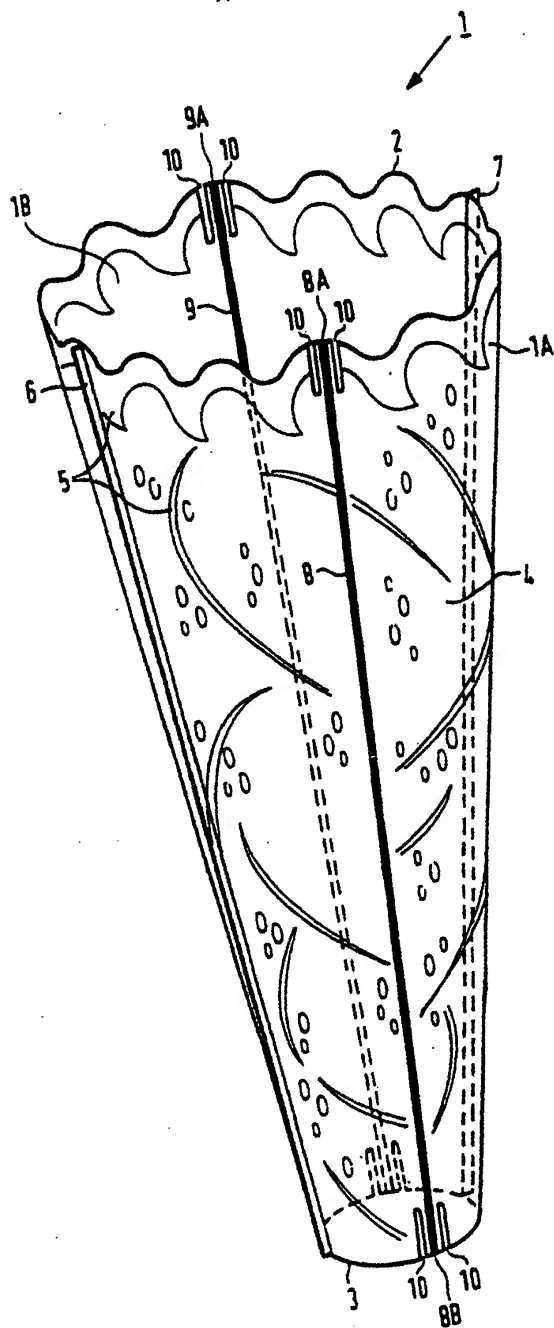


FIG. 1

2/2

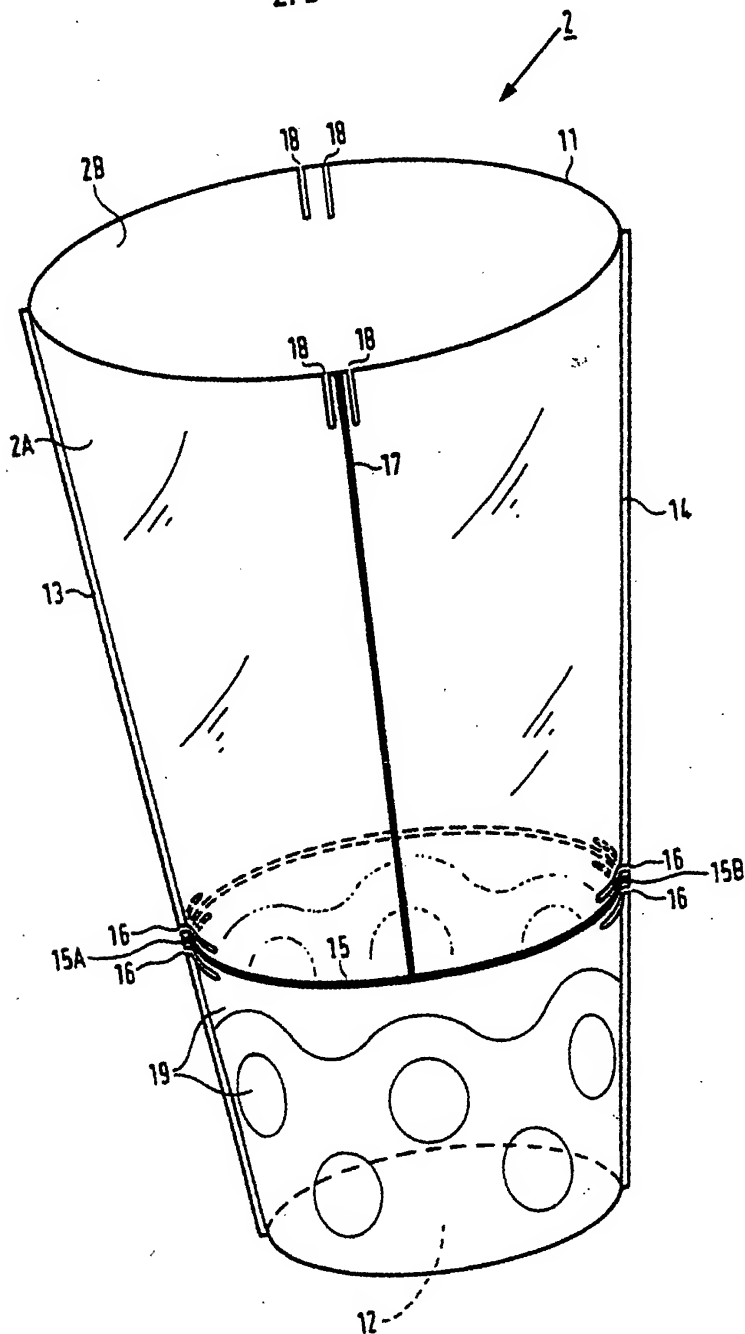


FIG. 2

INTERNATIONAL SEARCH REPORT

Int. Application No
PCT/NL 96/00380

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 B65D85/50 B65D85/52

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 B65D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CA 2 145 981 A (HIGHLAND SUPPLY CORPORATION) 1 October 1995 see page 1-40; figures 1-32 ---	1-4
X	AU 42319 78 A (DUNDAS NURSERY SUPPLY PTY. LTD.) 21 June 1979 see page 3, line 4-18; figures 1,2 ---	1,2,4
A	DE 31 07 143 A (B&M LIZENZGESELLSCHAFT MBH.) 9 September 1982 see page 13; figure 1 ---	7,9
A	DE 36 16 034 A (THIMM-DORNER) 19 November 1987 see column 4, line 21 - column 5, line 1; figure 3 -----	2
A		5,8

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

*** Special categories of cited documents:**

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Date of the actual completion of the international search

7 February 1997

Date of mailing of the international search report

12.02.97

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Vollering, J

INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No

PCT/NL 96/00380

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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		BR-A- 9501406	02-01-96
		EP-A- 0675055	04-10-95
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		US-A- 5572849	12-11-96
		US-A- 5575133	19-11-96
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		US-A- 5595022	21-01-97
		US-A- 5592776	14-01-97
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DE-A-3107143	09-09-82	NONE	
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DE-A-3616034	19-11-87	NONE	
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CH 560 532



CONFÉDÉRATION SUISSE
BUREAU FÉDÉRAL DE LA PROPRIÉTÉ INTELLECTUELLE

51 Int. Cl.: A 47 G 7/08

CH EXPOSÉ D'INVENTION AS 11 560 532

R

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(33) (32) (31) Priorité:

- (45) Brevet délivré le 28. 2. 1975
Exposé d'invention publié le 15. 4. 1975

- (54) Titre: Cache-pot

- (73) Titulaire: Edouard Berger, La Chaux-de-Fonds

- (74) Mandataire: Bugni n S.A., Genève

- (72) Inventeur: Edouard Berger, La Chaux-de-Fonds

L'objet de la présente invention est un cache-pot destiné à cacher un pot de fleurs.

On connaît déjà des cache-pot se présentant sous la forme d'un cylindre en carton ondulé qui épouse la forme du pot, ces cache-pot sont peu commodes, le pot pouvant glisser et se casser durant le transport. De plus, le carton s'imbibe d'eau lors des arrosages, devient mou, et peut pourrir.

Le but de la présente invention est l'obtention d'un cache-pot qui obvie aux inconvénients cités.

Ce cache-pot est caractérisé par le fait qu'il est formé d'une feuille d'un matériau mince, ce matériau étant plissé, le centre de ce plissage se trouvant approximativement au centre de ladite feuille.

Le dessin annexé représente, à titre d'exemple, en une figure unique, une forme d'exécution de l'invention.

Le cache-pot 1 représenté au dessin est destiné à cacher un pot de fleurs 2. Ce cache-pot est formé d'une feuille de matériau mince plissé-soleil. Le centre de ce plissage se trouve approximativement au centre de cette feuille. Dans la forme d'exécution représentée cette feuille est circulaire. Elle pourrait aussi être carrée, rectangulaire ou polygonale. Ce cache-pot peut être exécuté en toutes matières transparentes, en feuilles colorées ou non: cellophane ou acétate de cellulose par exemple. Cette feuille pourrait aussi être en un matériau opaque, en feuille d'aluminium teintée ou non, par exemple. On pourrait aussi imprimer la feuille avec un sujet décoratif et/ou publicitaire.

Le cache-pot peut éventuellement être maintenu par un cordon 3.

Cette feuille pourrait aussi recevoir, en plus d'un plissage, un gaufrage.

Ce cache-pot se présente à l'état plié, avant usage, sous la forme d'un paquet de faible encombrement, on peut, de ce fait, les livrer en boîtes ou en gerbes.

Le matériau en feuille sera, de préférence, imperméable et imputrescible, de cette façon l'eau d'arrosage restera dans le cache-pot et ne pourra souiller le porteur ou le meuble sur lequel le pot sera posé.

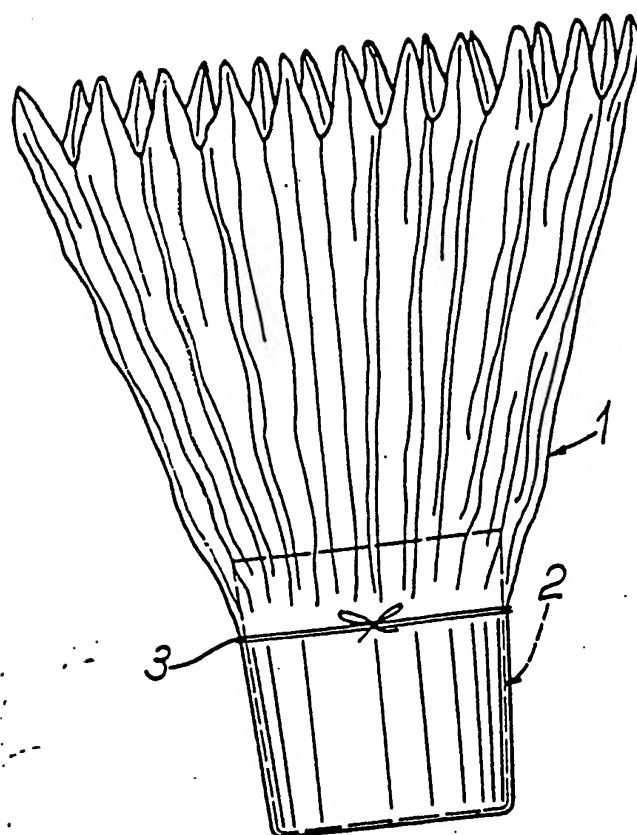
REVENDEICATION

Cache-pot, caractérisé par le fait qu'il est formé d'une feuille d'un matériau, ce matériau étant plissé, le centre de ce plissage se trouvant approximativement au centre de ladite feuille.

SOUS-REVENDEICATIONS

1. Cache-pot selon la revendication, caractérisé par le fait que ledit matériau est imperméable et imputrescible.
2. Cache-pot selon la sous-revendication 1, caractérisé par le fait que ledit matériau est en cellophane ou en acétate de cellulose transparent.
3. Cache-pot selon la sous-revendication 1, caractérisé par le fait que ledit matériau est en aluminium.

usage. un



SWISS CONFEDERATION
FEDERAL PATENT OFFICE

51 Int. Cl. A 47 G 7/08
560532

19 PATENT REPORT
21 Application no. A5
61 Additional to: 13011/72
62 Filing date: 9-4-1972, 7:00 P.m.
33 32 31 Priority

Patent granted on 2-28-1975
45 Patent report published 4-15-1975
54 Title: Cache pot
73 Holder: Edouard Berger, La Chaux-de-Fonds
74 Agent: Bugnion Law Offices, Geneva
72 Inventor: Edouard Berger, La Chaux-de-Fonds

The object of this invention is a cache pot intended to hold a pot of flowers.

Cache pots are already known in the form of a corrugated cardboard cylinder which takes the shape of the pot. These cache pots are inconvenient, as the pot can slide out and break during transport. In addition, the cardboard absorbs water when the plants are watered and it becomes soft and may rot.

The purpose of this invention is to produce a cache pot which eliminates these disadvantages.

The cache pot is characterized by the fact that it is formed of a sheet of thin material which is pleated, and the center of this pleating is approximately at the center of the sheet of material.

The attached drawing shows, as an example, in a single figure, a form of embodiment of the invention.

The cache pot 1 represented in the drawing is intended to conceal a pot of flowers 2, and the cache pot is made of a sheet of thin material with sun-ray pleats. The center of the pleating is approximately at the center of the sheet. In the form of execution represented, this sheet is circular. It could also be square, rectangular, or polygon. This cache pot can be made of any transparent material, or sheets of colored or colorless material - cellophane or cellulose acetate, for example. This sheet could also be made of an opaque material,

a sheet of tinted or untinted aluminum, for example. The sheet could also be printed with decorative designs or advertising.

The cache pot may be held by a cord 3.

In addition to being pleated, the sheet could also be fluted.

Before use, the cache pot is sold folded up in a small packet. For this reason, it can be delivered in boxes or in stacks.

The sheet material will preferably be waterproof and rot-proof, so that water will remain in the cache pot and will not drip on the person carrying it or stain the furniture on which it sits.

CLAIM

A cache pot characterized by the fact that it is made of a sheet of material, this material being pleated, and the center of the pleating being approximately at the center of the sheet.

SECONDARY CLAIMS

1. A cach pot according to the claim, characterized by the fact that the material is waterproof and rot-proof.

2. A cache pot according to secondary claim 1, characterized by the fact that the material is cellophane or transparent cellulose acetate.

3. A cache pot according to secondary claim 1, characterized by the fact that the material is aluminum.